

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/058778 A1

(51) International Patent Classification⁷: C07F 9/24,
9/6506, 9/6503, 9/653, A61K 31/675, A61P 29/00

(21) International Application Number:
PCT/EP2003/014818

(22) International Filing Date:
23 December 2003 (23.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
P 200202992 24 December 2002 (24.12.2002) ES

(71) Applicant (for all designated States except US): J. URI-
ACH Y COMPAÑIA S.A. [ES/ES]; Av. Camí Reial,
51-57, E-08184 Palau-Solità i Plegamans (ES).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ALMANSA, Ros-
ales, Carmen [ES/ES]; C/Teodora Lamadrid, 41, E-08022
Barcelona (ES). BARTROLI ORPI, Javier [ES/ES];
C/Enric Giménez, 16, E-08034 Barcelona (ES).

(74) Agents: ZUMSTEIN, F. et al.; Bräuhausstr. 4, 80331
Munich (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

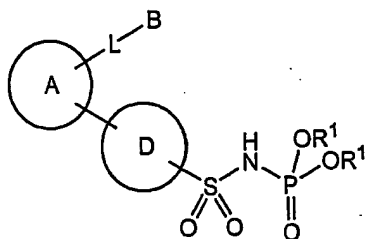
(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: NEW PHOSPHORAMIDE DERIVATIVES



(57) Abstract: New phosphoramidate derivatives of formula (I) and the salts and solvates thereof, wherein the meanings of the various substituents are as disclosed in the description. Said compounds are useful as antiinflammatory and analgesic agents.

WO 2004/058778 A1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/14818

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07F9/24 C07F9/6506 C07F9/6503 C07F9/653 A61K31/675 A61P29/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07F A61K A61P		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 122 243 A (J. URIAC & CIA. S.A.) 8 August 2001 (2001-08-08) the whole document	1-41
A	WO 97/38986 A (G.D. SEARLE & CO.) 23 October 1997 (1997-10-23) the whole document	1-41
A	WO 95/00501 A (MERCK FROSST CANADA INC.) 5 January 1995 (1995-01-05) the whole document	1-41
A	WO 96/36617 A (G.D. SEARLE & CO.) 21 November 1996 (1996-11-21) the whole document	1-41
	-/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 27 April 2004		Date of mailing of the international search report 12/05/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Beslier, L

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14818

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	ALMANSA, C, ET AL: "Synthesis and Structure-Activity Relationship of a New Series of COX-2 Selective Inhibitors: 1,5-Diarylimidazoles" JOURNAL OF MEDICINAL CHEMISTRY, 46(16), 3463-3475 CODEN: JMCMAR; ISSN: 0022-2623, 31 July 2003 (2003-07-31), XP002278124 the whole document	1-41

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14818

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1122243	A	08-08-2001	AU 6204899 A BR 9914571 A CA 2346847 A1 EP 1122243 A1 JP 2002527508 T NO 20011790 A WO 0023426 A1	08-05-2000 06-11-2001 27-04-2000 08-08-2001 27-08-2002 14-06-2001 27-04-2000
WO 9738986	A	23-10-1997	AP 1009 A AT 233743 T AU 734275 B2 AU 2722797 A BG 102916 A BR 1100403 A3 BR 9708574 A CA 2249009 A1 CN 1216043 A , B CZ 9802710 A3 DE 69719496 D1 DE 69719496 T2 DK 892791 T3 EA 3319 B1 EE 9800351 A EP 1288206 A1 EP 0892791 A1 ES 2194195 T3 HK 1019741 A1 HU 9901807 A2 JP 3382624 B2 JP 2000509029 T JP 2003160554 A KR 2000005395 A LT 98142 A , B LV 12239 A LV 12239 B NO 984727 A NZ 331542 A PL 329276 A1 PT 892791 T SI 9720035 A SK 124298 A3 TR 9802049 T2 US 5932598 A WO 9738986 A1 US 6436967 B1 ZA 9703146 A	21-09-2001 15-03-2003 07-06-2001 07-11-1997 31-08-1999 25-07-2000 03-08-1999 23-10-1997 05-05-1999 13-01-1999 10-04-2003 08-04-2004 23-06-2003 24-04-2003 15-04-1999 05-03-2003 27-01-1999 16-11-2003 02-05-2003 28-09-1999 04-03-2003 18-07-2000 03-06-2003 25-01-2000 26-07-1999 20-03-1999 20-08-1999 14-12-1998 29-07-1999 15-03-1999 30-06-2003 30-06-1999 13-04-1999 18-01-1999 03-08-1999 23-10-1997 20-08-2002 14-04-1998
WO 9500501	A	05-01-1995	US 5474995 A AT 165825 T AU 1913297 A AU 691119 B2 AU 6197096 A AU 6967494 A BG 63161 B1 BG 100247 A BR 9406979 A CA 2163888 A1 CA 2176973 A1	12-12-1995 15-05-1998 14-08-1997 07-05-1998 31-10-1996 17-01-1995 31-05-2001 28-06-1996 05-03-1996 05-01-1995 25-12-1994

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14818

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 9500501	A	CA 2176974 A1	25-12-1994	
		CA 2278241 A1	25-12-1994	
		CA 2364039 A1	05-01-1995	
		WO 9500501 A2	05-01-1995	
		CN 1295065 A ,B	16-05-2001	
		CN 1125944 A ,B	03-07-1996	
		CY 2098 A	05-04-2002	
		CZ 9503146 A3	15-05-1996	
		DE 69410092 D1	10-06-1998	
		DK 705254 T3	25-01-1999	
		EP 0705254 A1	10-04-1996	
		EP 0754687 A1	22-01-1997	
		EP 0822190 A1	04-02-1998	
		EP 0980866 A2	23-02-2000	
		ES 2115237 T3	16-06-1998	
		FI 956119 A	19-12-1995	
		FI 20012510 A	19-12-2001	
		HK 1027474 A1	12-01-2001	
		HR 940373 A1	31-12-1996	
		HU 74070 A2	28-10-1996	
		IL 110031 A	31-01-2000	
		IL 123002 A	30-04-2001	
		JP 2000038375 A	08-02-2000	
		JP 2977137 B2	10-11-1999	
		JP 9500372 T	14-01-1997	
		JP 3490406 B2	26-01-2004	
		JP 2002069054 A	08-03-2002	
		KR 215358 B1	16-08-1999	
		LV 12209 A	20-01-1999	
		LV 12209 B	20-03-1999	
		MX 9404749 A1	31-01-1995	
		NO 955256 A	23-02-1996	
		NZ 267386 A	26-02-1998	
		PL 312196 A1	01-04-1996	
		RO 115354 B1	28-01-2000	
		RU 2131423 C1	10-06-1999	
		SG 52703 A1	28-09-1998	
		SI 705254 T1	31-08-1998	
		SK 150295 A3	08-01-1997	
		WO 9636617	A	21-11-1996
CA 2221692 A1	21-11-1996			
EP 0825989 A1	04-03-1998			
JP 11509835 T	31-08-1999			
WO 9636617 A1	21-11-1996			
US 6090834 A	18-07-2000			